

**What is claimed is:**

1. A fryer comprising:

an oil vessel for containing cooking oil;

a heating means for heating the cooking oil in the oil vessel;

a heat controlling means for setting the cooking oil at the predetermined temperature by controlling the heating means;

a temperature sensor for detecting a temperature of the cooking oil, and

a display portion for displaying the temperature of the cooking oil and the like,

wherein based on the predetermined temperature the oil temperature is classified into three ranges: the most desirable temperature range for cooking, temperature ranges capable of cooking excluding the above range, temperature ranges in which a start of cooking is prohibited, and wherein the display portion displays the temperature range into which the oil temperature detected by the temperature sensor is classified.

2. A fryer as claimed in claim 1, wherein the display portion also displays the difference between the predetermined temperature and the oil temperature detected by the temperature sensor.

3. A fryer as claimed in claim 1, wherein a display form of the temperature ranges in which a start of cooking is

prohibited is different from that of the other ranges.

4. A fryer as claimed in claim 2, wherein a display form of the temperature ranges in which a start of cooking is prohibited is different from that of the other ranges.

5. A fryer as claimed in claim 1, further comprising a plurality of cooking timers for counting the predetermined time set in accordance with each menu, and a plurality of menu switches for starting the cooking timers, wherein the display portion alternately displays a temperature range to which the oil temperature detected by the temperature sensor belongs and the remaining time of the cooking timers while the cooking timers are counting.

6. A fryer as claimed in claim 2, further comprising a plurality of cooking timers for counting the predetermined time set in accordance with each menu, and a plurality of menu switches for starting the cooking timers, wherein the display portion alternately displays a temperature range to which the oil temperature detected by the temperature sensor belongs and the remaining time of the cooking timers while the cooking timers are counting.

7. A fryer as claimed in claim 3, further comprising a plurality of cooking timers for counting the predetermined time set in accordance with each menu, and a plurality of menu switches for starting the cooking timers, wherein the display

portion alternately displays a temperature range to which the oil temperature detected by the temperature sensor belongs and the remaining time of the cooking timers while the cooking timers are counting.

8. A fryer as claimed in claim 4, further comprising a plurality of cooking timers for counting the predetermined time set in accordance with each menu, and a plurality of menu switches for starting the cooking timers, wherein the display portion alternately displays a temperature range to which the oil temperature detected by the temperature sensor belongs and the remaining time of the cooking timers while the cooking timers are counting.

9. A fryer as claimed in claim 5, wherein the display portion is commonly used for displaying the remaining time of the cooking timers and wherein, the display portion gives priority to display the remaining time of a timer which shows the shortest time remained while two or more cooking timers are counting.

10. A fryer as claimed in claim 6, wherein the display portion is commonly used for displaying the remaining time of the cooking timers and wherein, the display portion gives priority to display the remaining time of a timer which shows the shortest time remained while two or more cooking timers are counting.

11. A fryer as claimed in claim 7, wherein the display portion is commonly used for displaying the remaining time of the cooking timers and wherein, the display portion gives priority to display the remaining time of a timer which shows the shortest time remained while two or more cooking timers are counting.

12. A fryer as claimed in claim 8, wherein the display portion is commonly used for displaying the remaining time of the cooking timers and wherein, the display portion gives priority to display the remaining time of a timer which shows the shortest time remained while two or more cooking timers are counting.

13. A fryer as claimed in claim 9, further comprising a correction means for correcting the remaining time of the cooking timers based on the oil temperature, wherein when a timer which originally showed the shortest time remained is replaced with another cooking timer which comes to an end first, the display portion displays the remaining time of the replaced timer while cooking is on-going.

14. A fryer as claimed in claim 10, further comprising a correction means for correcting the remaining time of the cooking timers based on the oil temperature, wherein when a timer which originally showed the shortest time remained is replaced with another cooking timer which comes to an end

first, the display portion displays the remaining time of the replaced timer while cooking is on-going.

15. A fryer as claimed in claim 11, further comprising a correction means for correcting the remaining time of the cooking timers based on the oil temperature, wherein when a timer which originally showed the shortest time remained is replaced with another cooking timer which comes to an end first, the display portion displays the remaining time of the replaced cooking timer while cooking is on-going.

16. A fryer as claimed in claim 12, further comprising a correction means for correcting the remaining time of the cooking timers based on the oil temperature, wherein when a timer which originally showed the shortest time remained is replaced with another cooking timer which comes to an end first, the display portion displays the remaining time of the replaced cooking timer while cooking is on-going.

17. A fryer as claimed in claim 9, wherein the display portion displays only the remaining time of a cooking timer corresponding to the menu switch while a user is operating the same.

18. A fryer as claimed in claim 10, wherein the display portion displays only the remaining time of a cooking timer corresponding to the menu switch while a user is operating the same.

19. A fryer as claimed in claim 11, wherein the display portion displays only the remaining time of a cooking timer corresponding to the menu switch while a user is operating the same.

20. A fryer as claimed in claim 12, wherein the display portion displays only the remaining time of a cooking timer corresponding to the menu switch while a user is operating the same.

21. A fryer as claimed in claim 13, wherein the display portion displays only the remaining time of a cooking timer corresponding to the menu switch while a user is operating the same.

22. A fryer as claimed in claim 14, wherein the display portion displays only the remaining time of a cooking timer corresponding to the menu switch while a user is operating the same.

23. A fryer as claimed in claim 15, wherein the display portion displays only the remaining time of a cooking timer corresponding to the menu switch while a user is operating the same.

24. A fryer as claimed in claim 16, wherein the display portion displays only the remaining time of a cooking timer corresponding to the menu switch while a user is operating the same.